

NWS CHANGE FORM PART A			1. DATE SUBMITTED 19 May 2000 Received 3 June 2000	
This form is in three parts. Submitters must complete unshaded blocks in Part A and as much of Part B as possible. WSH will complete Part C (implementation details). If there is no specific required change date, enter 60 days from date submitted. Address questions to NWS Change Management at (301) 713-1373. Submit change requests to the NWSRC mailbox (External: NWSRC@noaa.gov).				
2. ORIGINATOR OFFICE W/APO		3. SUBMITTING AUTHORITY Name: Ward Seguin Routing Code: W/APO1		4. COGNIZANT TECHNICAL INDIVIDUAL Name: Thuy Tran Routing Code: W/APO1 Phone: 301-713-0211x176
5. ORIGINATOR TRACKING NUMBER APO_A100059				7. WSH TRACKING NUMBER NWS 593
6. SYSTEMS AFFECTED BY CHANGE <div style="display: flex; justify-content: space-between; align-items: flex-start;"> <div> <input type="checkbox"/> ASOS <input checked="" type="checkbox"/> AWIPS <input type="checkbox"/> CRS <input type="checkbox"/> NEXRAD <input type="checkbox"/> OTHER (specify) _____ </div> <div> <input type="checkbox"/> DATA PRODUCTS (Complete Data Products Supplement) </div> </div>				
8. TITLE OF CHANGE <div style="text-align: center;">AWIPS Software Version 5.0</div>				
9. TYPE OF CHANGE <input type="checkbox"/> HARDWARE <input checked="" type="checkbox"/> SOFTWARE <input type="checkbox"/> DOCUMENTATION ONLY			10. SITES AFFECTED (Attach Part B, Page 2, if needed) All sites	
11. STATEMENT OF REQUIREMENT, PROBLEM, OR DEFICIENCY OF EXISTING SYSTEM (Include problem report reference numbers.) Update AWIPS software and correct identified deficiencies				
12. KNOWN OR PROPOSED SOLUTION (Include source and description of new features or data products.) Release 5.0 provides for functionality items/updates listed in attachment A. This includes a large number of DR corrections listed in attachment B. (These DRs have been pushed to R5.0 from the previous releases.) R5.0 will be installed after R4.3.3.				
13. ALTERNATE SOLUTIONS None.				
14. REQUIRED CHANGE DATE 12/6/ 2000		15. RATIONALE FOR REQUIRED CHANGE DATE (Include proposed priority, if known.) To enable follow-on software implementation to meet projected target dates.		
CCB/PMC/CMB DECISION				
16. DECISION AUTHORITY LEVEL		<input type="checkbox"/> CCB LEVEL ONLY <input type="checkbox"/> PMC or NWS CMB DECISION REQUIRED		
17. CCB LEVEL DECISION		<input type="checkbox"/> APPROVED		
		<input type="checkbox"/> RECOMMEND APPROVAL		
		<input type="checkbox"/> DISAPPROVED		
		SIGNATURE		
FOR USE ONLY WHEN PMC or NWS CMB DECISION REQUIRED				
18. PMC OR NWS CMB DECISION		<input type="checkbox"/> APPROVED		
		<input type="checkbox"/> DISAPPROVED		
		SIGNATURE		
		DATE SIGNED		

NWS CHANGE FORM PART A - DATA PRODUCTS SUPPLEMENT
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2. WSH TRACKING NUMBER
NWS 593

This information is required for Data Products submissions. (Submitters should complete all applicable blocks, if known. WSH will assist.) Attach extra pages if necessary.

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NWS CHANGE FORM PART B		1. ORIGINATOR TRACKING NUMBER APO_A100059	
All RC/ECP submissions must also address the following information. Indicate if any areas are unknown or do not apply. State why information is unknown and when it will be available. Attach extra pages if necessary, referencing each applicable subject.		2. WSH TRACKING NUMBER NWS 593	
FUNDING INFORMATION			
Estimate costs and indicate known sources of funding. (Include travel time, installation time, administrative time, and software development time when applicable.)		3. SOURCE OF FUNDING	4. TOTAL COST
5. DEVELOPMENT COSTS (Estimate development costs) Contract (PRC) - Covered by CLIN 18.		KMOD _____ BASE	AMOUNT
6. OPERATIONAL TEST AND EVALUATION COSTS (Estimate test and evaluation costs) Included in Block 5.		BASE	AMOUNT \$0
7. PRODUCTION COSTS (Include acquisition, kit proofing, spares, delivery, and documentation costs) Included in Block 5.		KMOD _____ BASE	AMOUNT See #5
8. COMMUNICATIONS SERVICE/CIRCUITS COSTS (Include installation and recurring costs) N/A			AMOUNT \$0
9. IMPLEMENTATION SUPPORT COSTS (Include travel, installation, and administrative costs) Contractor (PRC) support Government Installation		KMOD _____ BASE	AMOUNT See #5
9A. LIFE CYCLE SUPPORT COSTS (Less communications service/circuits) Contractor (PRC) - NCF Operations		KMOD _____	AMOUNT Unknown
SUPPORTING INFORMATION AND SCHEDULES Provide detailed information needed to implement the requested change.			
10. DEVELOPMENT STATUS/SCHEDULE (Major milestones such as Start, Beta Test, and OT&E) Development Start- Completion- 5.0 - 5/1999 12/01/2000		11. PRODUCTION STATUS/SCHEDULE (Major milestones such as Solicitation, Contract Start Date, Delivery Date, Kit Proofing, etc.) Delivery - 12/08//2000	
12. IMPLEMENTATION/RETROFIT SCHEDULE TBD		13. FACILITY INFORMATION (Attach facility drawings/plans.) N/A	
14. COMMUNICATIONS INSTALLED (Type required, who will order, and associated hardware required; attach Part B, Page 2, if needed.) N/A		15. COMMUNICATIONS SERVICE/CIRCUITS TO BE REMOVED N/A	
16. REQUIRED CLEARANCES, WAIVERS, AND LICENSES (Include person or organization responsible for obtaining each) N/A		17. COORDINATION OF CHANGE WITH OTHER CHANGES Requires AWIPS SW Ver 4.3.3 to be installed prior to implementation.	
18. PHYSICAL ITEMS AND DOCUMENTS AFFECTED (Include part, serial, and document numbers. Attach Part B, Page 2, if needed.) See Part B		19. STAFF RESOURCE IMPACTS (Skills and workload impact on maintainers, operators, and managers.) No recurring workload impacts.	
20. LOGISTICS IMPACTS (Include facilities, maintenance, training, and support equipment impacts.) N/A		21. OPERATIONAL IMPACTS (Include continuity and back up needs and plans.) Service backup during software installation required (less than TBD hour per site for installation).	
22. ADDITIONAL MAJOR CHANGE ACTIVITIES (Include who will accomplish each of them and staff hours required.) There will be two SVRs: R5.0 SVR without IFPS on 11/6/2000 and R5.0 IFPS SVR on 12/6/2000. PRC will provide a CD set with the SW and installation instructions to the sites. The SW is to be installed by site personnel IAW installation instructions. Installation will take less than TBD hours. NCF and SST will be available to sites requiring assistance. Site installation schedules will be established by AWIPS Regional Focal Points and the SST. Initial Operational Capability occurs at first site on 12/11/2000. Sites will report completion of installation via an ADM message to the NCF. All selected sites to implement change by TBD date.			

NWS CHANGE FORM PART B - PHYSICAL ITEM AND DOCUMENT IMPACT MATRIX SUPPLEMENT						1. ORIGINATOR TRACKING NUMBER APO_A100059			
This information is required prior to publication of Engineering Modification Notes and Software Release Notes. List physical items to be replaced and specify any changes in related documentation. (Submitters should complete this information, if known. WSH will assist.)						2. WSH TRACKING NUMBER NWS 593			
3. ITEM NAME, CIRCUIT TYPE, SOFTWARE VERSION, OR SITE LOCATION	4. REMOVE REPLACE MODIFY	5. SUPERSEDED ITEM OR CONFIGURATION		6. SUPERSEDING PART NUMBER OR NEW CONFIGURATION	7. DOC TYPE	8. SUPERSEDED DOCUMENT		9. SUPERSEDING DOCUMENT	
		A. PART NUMBER OR	B. SERIAL NUMBER(S) OR			A. IDENTIFIER	B.	A.	B. REV
AWIPS Software	Replace	Version 4.3.3		Version 5.0	Software Listing	Release 4.3.3	6/00	Rel 5.0	12/00
					Release Notes	R4.3.3	6/00	Rel 5.0	12/00
					SMM	R4.3	2/00	Rel 5.0	12/00
					User's Manual	R4.3	2/00	Rel 5.0	12/00

NWS CHANGE FORM PART C		1. ORIGINATOR TRACKING NUMBER APO_A100059	
WSH is responsible for Part C, but submitters may complete sections that would help clarify the change requirement or the necessary implementation actions.		2. WSH TRACKING NUMBER NWS 593	
3. CCB COST EVALUATION <div style="display: flex; justify-content: space-between;"> NWS COST FAA COST \$ DOD COST \$ OTHER AGENCY COST \$ TOTAL COST See Part B </div> <div style="text-align: center;">(SPECIFY)_____</div>			
4. IMPLEMENTATION DOCUMENTS REQUIRED <div style="display: flex; justify-content: space-around;"> <input type="checkbox"/> Engineering Modification Note <input type="checkbox"/> Software Release Notes <input type="checkbox"/> Other Document (Specify)_____ </div>			
ADDITIONAL IMPLEMENTATION INSTRUCTIONS (e.g., Implementation schedule, parts shipping instructions, equipment disposal procedures, additional documentation required, and status reporting instructions.) Include documentation, data input, notification vehicle, or specific action step required to verify completion of the implementation activity.			
5. IMPLEMENTATION ACTIVITY REQUIRED	10 April 00	7. RESPONSIBLE PERSON AND OFFICE	8. DOCUMENT OR ACTION REQUIRED TO VERIFY COMPLETION
Note: All dates are approximate. Exact schedule TBD. A. Coordinate implementation schedule with field offices through AWIPS Regional Focal Points B. Train NCF staff on the new software capabilities, installation procedures, and trouble shooting procedures C. Release SW Listing following NWS CCB approval to do so. D. Release AWIPS SW ver 4.3.1 to the NCF and NWS CM (W/OSO113) as directed by APO. E. Release SW to sites IAW approved schedule. F. Ensure this change is reported to the Weather Service Headquarters (WSH) through the Engineering Management Reporting System (EMRS) according to the instructions in Engineering Handbook number 4, part 2. Record this RC number (NWS 593) in Block 17a of the EMRS report. G. Ensure the appropriate WSH management information and configuration management data bases are updated to reflect these changes.	11 Dec 2000 11 Dec 2000 11 Dec 2000 11 Dec 2000 12 Dec 2000 28 Feb 2001 13 Mar 2001	Thigpen/SST W/APO3 TBD,PRC TBD,PRC TBD,PRC PRC Site ESA W/OSO112	N/A N/A NWS Contr. Off. Notify Gillespie, W/OSO112 Ref Item H. N/A N/A

R5.0 FUNCTIONALITY

May 8, 2000

ORGANIZATION: APO		
TASK	CURRENT STATUS	RECOMMENDATION
RWP 031: Long Range Models	In test	Keep
RWP 035: Satellite Data Products	SwIT ready	Keep
RWP 100 Interrogate Various COOP Dataloggers	DCS_1097 to be checked in the week of 5/8	Keep
RWP 173: Distribute Centrally Collected Rada	In test	Keep
RWP 252: WMO-based Text Database: DB modifications	In test	Keep
RWP 257: SW Portability to GCC Compiler (port of APO code to GCC)	SwIT ready	Keep
TASK	CURRENT STATUS	RECOMMENDATION
RPUs: D2D: zoom and recenter LDAD: modem scripts	In test (need live radar)	Keep
ORGANIZATION: TDL		
RWP 062: Monthly/Seasonal Climate	In test	Keep
RWP 063: TAF QC	In test	Keep
RWP 073: Consolidation (IFPS)	Initial testing on NHDA	Keep
RWP 074: WWA/Warngen Integration	In test	Keep (need significant regression testing and OM support. Capability will be available on NHDA for testing)
RWP 077: Model Interpretation (IFPS)	Initial testing on NHDA	Keep
RWP 166: SCAN/WDSS	In test (need live radar)	Keep
RWP 206: Flash Flood Monitoring and Prediction (gridded) * Note: TDL S/W only	In test (need live radar)	Keep

R5.0 FUNCTIONALITY

May 8, 2000

ORGANIZATION: FSL		
TASK	CURRENT STATUS	RECOMMENDATION
RWP 001/006: New netcdf Storage	SwIT ready	Keep
RWP 031: Long Range Models	In test	Keep
RWP 039: Add PMSL Grid and Display	In test	Keep
RWP 051: WarnGen Pathcast	In test	Keep
RWP 217: Replace Edit Tools (IFPS)	Initial testing on NHDA	Keep
RWP 218: Improve Graphics Performance (IFPS)	Initial testing on NHDA	Keep
RWP 220: Weather Color Tables/Display (IFPS)	Initial testing on NHDA	Keep
RWP 221: Optimize Performance (GFE_Suite)	Initial testing on NHDA	Keep
RWP 238: Gridded Products (IFPS)	Initial testing on NHDA	Keep
RWP 081: Volume Browser	In test	Keep
TASK	CURRENT STATUS	RECOMMENDATION
RWP 102: LDAD Obs - Access To Local Data By All Programs	In test	Keep
RWP 110: Hurricane Display	In test	Keep
RWP 168: Moveable Polar Radar Graphic - (WFO/State Scales)	In test	Keep
RWP 194: Better Documentation of Localization	No code	Keep
RWP 183: Alaska Auto Product Generation (GIF)	SwIT ready	Keep (This capability will run only at headquarter sites)

R5.0 FUNCTIONALITY

May 8, 2000

TASK	CURRENT STATUS	RECOMMENDATION
RWP 257: SW Portability (port to GNU C++ , also includes RWP 246 - Port to Linux)	SwIT ready	Keep
RWP 259: Merge Linux/IFPS/D2D Foundation	SwIT ready	Keep
RWP 245: Performance (Re-engineer LDAD storage to use less CPU, Set up baseline system to begin performance evaluations)	In test	Keep
RWP 101 MSAS observations w/QC information, Read netcdf files of observations used to generate MSAS Read QC netcdf files, Generate depictable of observations/QC info)	In test	Keep
TASK	CURRENT STATUS	RECOMMENDATION
LAPS RPU (DCS 750 - Radar Data Ingest DCS 751 - Satellite Data Ingest DCS 752 - Surface Analysis Improvements DCS 753 - LAPStools GUI DCS 754 - Configure LAPS Domain via the tool GUI DCS 755 - Display List of Data DCS 756 - Bad Observation List DCS 757 - Wet Bulb Zero Height DCS 758 - Local Model Accommodations)	DCS 750- SwIT ready DCS 751- SwIT ready DCS 752- SwIT ready DCS 753- SwIT ready DCS 754- In test DCS 755 - in test DCS 756-SwIT ready DCS 757-SwIT ready DCS 758-SwIT ready	Keep

R5.0 FUNCTIONALITY

May 8, 2000

TASK	CURRENT STATUS	RECOMMENDATION
LDAD RPU DCS 764 - Radar Process Monitor Restarts DCS 765 - MHS Routine Program Update	DCS 764-In-test DCS 765-SwIT ready	- DCS_764: Keep - DCS_765: Keep
DCS 767 - Radar General Status Message DCS 768 - Upgrade MSAS Boundary Condition From MGM To Eta DCS 769 - Restructure QC Array To Reduce Memory Usage In sfchqc DCS 770 - Eliminate Assumption That All Maritime Stations Are At Sea Level DCS 771 - Upgrade MSAS Observation File Output DCS 772 - Eliminate Stations Labeled As "SHIP" DCS 773 - Modify MSAS To Read Update NetCDF Point Data Files DCS 774 - Upgrade To QC Output and Display DCS 775 - Display All Three Sea Level Pressures From MSAS DCS 776 - Improve High Resolution Radar Zoom	DCS 767 - 776: In-test	Keep (DCS_767 - DCS_776)
TASK	CURRENT STATUS	RECOMMENDATION
DCS 779 - Removal of Informix directories And References to Informix from LDAD code in R5.0 DCS 822 - Add Theta Fields To MSAS Products DCS 881 - WF: Redbook Graphic RPU DCS 896 - Radar Dialout Modifications DCS 915 - Changes In Gridded Data Stream	DCS 779- In test DCS 822- In-test DCS 881- In-test DCS 896- In-test DCS 915- SwIT ready	Keep (DCS_779 - DCS_915)
DCR 49 DEV50 workset reorganization (DCS 709 - incorporation of common source into AWIPS_common and top level makefile changes for R5.0 DCS 710 - Movement of LDAD code into D2D for R5.0)	SwIT ready	Keep
DCS 850 - Set GINI default to the new GINI for B5.0 DCS 822 - Add Potential temp advection and equilnt potential temp advection to MSAS menu.	DCS 850-SwIT ready DCS822-In-test	Keep (DCS_850, DCS_822)